

09/914448
JCOS 28 AUG 2001

PATENT
Customer No. 22,852
Attorney Docket No. 04202.0143-00

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
)
Shigeru KEMMOCHI et al.) Group Art Unit: Unassigned
)
Serial No : Uassigned) Examiner: Unassigned
)
Filed: Concurrently w/Appln.)
)
For: HIGH-FREQUENCY SWITCH CIRCUIT,)
HIGH-FREQUENCY SWITCH MODULE AND)
WIRELESS COMMUNICATIONS DEVICE)
COMPRISING IT)

Assistant Commissioner for Patents
Washington, DC 20231

Sir:

PRELIMINARY AMENDMENT

Prior to the examination of the above application, please amend the captioned accompanying application as directed below:

IN THE CLAIMS:

Amend the pending claims 8-11, 14, and 16-18, to read as follows:

8. (Amended) The high-frequency switch circuit according to any one of claims 1-6, wherein each of said transmission lines has a line length of $\lambda/10$ - $\lambda/4$.

9. (Amended) The high-frequency switch circuit according to any one of claims 1-6, wherein said first and second bandpass filters are surface acoustic filters, laminate-type dielectric filters, coaxial resonator filters or bulk wave filters.

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10. (Amended) The high-frequency switch circuit according to any one of claims 1-6, wherein an unbalanced output-type surface acoustic filter is used for a bandpass filter of said branching circuit, and a balun having an unbalance-balance conversion function is connected to the output of said unbalanced output-type surface acoustic filter.

11. (Amended) The high-frequency switch circuit according to any one of claims 1-6, wherein a diode is used for said high-frequency switch.

14. (Amended) A high-frequency switch module comprising the high-frequency switch circuits according any one of claims 1-6, for handling a plurality of transmitting/receiving systems of different passbands, wherein each high-frequency switch circuit comprises a phase shifter, a bandpass filter and first and second filter circuits each constituted by a transmission line and a capacitor.

16. (Amended) A wireless communications device comprising the high-frequency switch module according to claim 14.

17. (Amended) A mobile phone comprising the high-frequency switch module according to claim 14.

18. (Amended) A mobile phone comprising the high-frequency switch circuits according to any one of claims 1-6, and voltage control circuits for supplying voltage for determining the operation mode of said high-frequency switch circuits.

REMARKS

The present amendment is intended solely to correct improper multiple dependency of several claims, namely claims 8-11, 14, and 16-18, to ensure prompt examination of all claims 1-18.

- 2 -

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Appendix A includes the unamended claims with brackets and underlining to show deletions and additions, respectively.

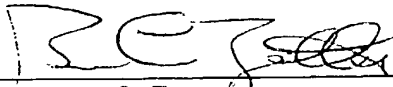
If there is any fee due in connection with the filing of this Preliminary Amendment, including additional claim fees or multiple claim fees, not accounted for or requested in the application transmittal letter, please charge the fee to Deposit Account No. 06-0916.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER, L.L.P.

Dated: August 28, 2001

By:


Bruce C. Zotter
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Encl: Appendix A

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APPENDIX A

8. (Amended) The high-frequency switch circuit according to any one of claims [1-7] 1-6, wherein each of said transmission lines has a line length of $\lambda/10$ - $\lambda/4$.

9. (Amended) The high-frequency switch circuit according to any one of claims [1-8] 1-6, wherein said first and second bandpass filters are surface acoustic filters, laminate-type dielectric filters, coaxial resonator filters or bulk wave filters.

10. (Amended) The high-frequency switch circuit according to any one of claims [1-8] 1-6, wherein an unbalanced output-type surface acoustic filter is used for a bandpass filter of said branching circuit, and a balun having an unbalance-balance conversion function is connected to the output of said unbalanced output-type surface acoustic filter.

11. (Amended) The high-frequency switch circuit according to any one of claims [1-8] 1-6, wherein a diode is used for said high-frequency switch.

14. (Amended) A high-frequency switch module comprising the high-frequency switch circuits according any one of claims [1-11] 1-6, for handling a plurality of transmitting/receiving systems of different passbands, wherein each high-frequency switch circuit comprises a phase shifter, a bandpass filter and first and second filter circuits each constituted by a transmission line and a capacitor.

16. (Amended) A wireless communications device comprising the high-frequency switch module according to claim [14 or 15] 14.

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17. (Amended) A mobile phone comprising the high-frequency switch module according to claim [14 or 15] 14.

18. (Amended) A mobile phone comprising the high-frequency switch circuits according to any one of claims [1-11] 1-6, and voltage control circuits for supplying voltage for determining the operation mode of said high-frequency switch circuits.

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